International Application No PCT/NL2004/000018

•	FICATION OF SUBJECT MATTER C07C209/50 C07D295/02 B01J23/ B01J23/60 B01J23/62 B01J23/ B01J23/86 B01J23/885 B01J23/	89	28 B01J 80 B01J	23/36 23/84
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Minimum do	cumentation searched (classification system followed by classificati	on symbols)		
IPC 7	C07C C07D B01J			
Documental	tion searched other than minimum documentation to the extent that s	uch documents are includ	ded in the fields sea	inched
	ata base consulted during the International search (name of data ba ternal, CHEM ABS Data, INSPEC, COMP		search terms used)	·
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages		Relevant to claim No.
X	US 4 035 353 A (KANETAKA JUNICHI 12 July 1977 (1977-07-12) claim 1	ET AL)		1-25
X	HIROSAWA C ET AL: "Hydrogenatio Amides by the Use of Bimetallic Consisting of Group 8 to 10, and or 7 Metals" TETRAHEDRON LETTERS, ELSEVIER SC PUBLISHERS, AMSTERDAM, NL, vol. 37, no. 37, 9 September 1996 (1996-09-09), p 6749-6752, XP004088084 ISSN: 0040-4039 cited in the application the whole document	Catalysts Group 6 IENCE		1-27
X Funi	ner documents are listed in the continuation of box C.	X Patent family me	embers are listed in	annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but		To later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family Date of mailing of the international search report.		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Veefkind, V		

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	ion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Category °				
Х	EP 0 286 280 A (BP CHEM INT LTD) 12 October 1988 (1988-10-12) page 5, line 13 - line 18; claim 1	1-27		
A	US 4 772 750 A (HABERMANN CLARENCE E) 20 September 1988 (1988-09-20) claim 2	1		
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 8.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-27 (in part)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-27 (in part)

Claims 1-24 insofar the catalyst is chosen from AlB1C1, claims 25-27 if they comprise one or more catalysts A1B1C1. Claims 1-24 insofar the catalyst is chosen from A2B2, claims 25-27 if they comprise one or more catalysts A2B2. in which AxByCz are defined below

1.1. claims: 1-27 (in part)

Claims 1-24 insofar the catalyst is chosen from A1B1C1, claims 25-27 if they comprise one or more catalysts A1B1C1.

1.2. claims: 1-27 (in part)

Claims 1-24 insofar the catalyst is chosen from A2B2, claims 25-27 if they comprise one or more catalysts A2B2.

Inventions 2-38: claims 1-27 (in part)

Inventions 2-18: Claims 1-24 insofar the catalyst is chosen from A1B1C2, A1B1C3, A1B2C1, A1B2C2, A1B2C3, A1B3C1, A1B3C2, A1B3C3, A2B1C1, A2B1C2, A2B1C3, A2B2C1, A2B2C2, A2B2C3, A2B3C1, A2B3C2, A2B3C3, respectively. claims 25-27 if they comprise one or more of these catalysts

Inventions 19-38: Claims 1-24 insofar the catalysts is chosen from A1B1, A1B2, A1B3, A2B1, A2B3, A1C1, A1C2, A1C3, A2C1, A2C2, A2C3, B1C1, B1C2, B1C3, B2C1, B2C2, B2C3, B3C1, B3C2, B3C3 respectively. claims 25-27 if they comprise one or more of these catalysts

in which:

A1 = Co or Fe, A2 = Ir, Pt, Rh or Ru,

B1 = Cr or Mo,

B2 = Re

B3 = V

C1 = Cu

C2 = In

C3 = Zn

Invention 39: claims 28-31

Method for the selection of at least one bi- or trimetallic catalyst

Information on patent family members

International Application No
PCT/NL2004/000018

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4035353	12-07-1977	JP 1176434 C JP 50089383 A JP 58009108 B JP 1176435 C JP 50089384 A JP 58009109 B BE 829113 A1 DE 2459547 A1 IT 1024470 B SU 677658 A3	14-11-1983 17-07-1975 18-02-1983 14-11-1983 17-07-1975 18-02-1983 17-11-1975 19-06-1975 20-06-1978 30-07-1979
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US 4772750	A 20-09-1988	NONE	